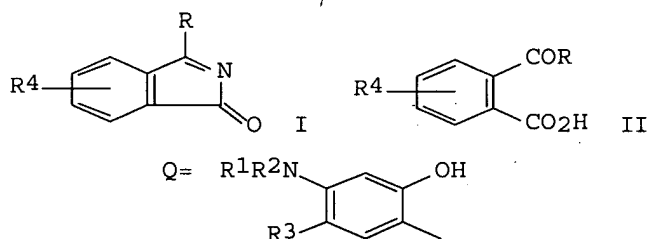


L5 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1990:55599 CAPLUS Full-text
 DN 112:55599
 TI Preparation and hydrolysis of 3-(4-amino-2-hydroxyphenyl)-1-oxo-
 isoindolenines
 IN Kranz, Joachim; Landmann, Bernd; Mayer, Udo
 PA BASF A.-G., Fed. Rep. Ger.
 SO Ger. Offen., 7 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

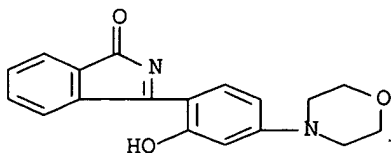
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3800577	A1	19890720	DE 1988-3800577	19880112
	EP 327792	A2	19890816	EP 1989-100028	19890103
	EP 327792	A3	19891004		
	EP 327792	B1	19931222		
	R: CH, DE, FR, GB, IT, LI				
	US 4904798	A	19900227	US 1989-295462	19890110
	JP 01213261	A2	19890828	JP 1989-2964	19890111
PRAI	DE 1988-3800577	A	19880112		
OS	CASREACT 112:55599; MARPAT 112:55599				
GI					



AB The title compds. [I; R = Q; R1 = H, (un)substituted C1-12 alkyl, C5-8 cycloalkyl, Ph; R2 = H, (un)substituted C1-6 alkyl; NR1R2 = morpholino, pyrrolidino, piperdino; R3 = H, Me; R4 = H, Cl, C1-4 alkyl, NO2] were prepared by condensation of 3-aminophenols QH with 3-amino-1-oxo- isoindolenines I (R = NH2, R4 as above) in the presence of acids, and hydrolyzed to II (R and R4 as defined). Thus, 4,3-Me(EtNH)C6H3OH was heated 1 h at 120° with I.HCl (R = NH2, R4 = H) in DMF to give I (R = Q, R1 = Et, R2 = R4 = H, R3 = Me) which was refluxed 5 h in 20% aqueous KOH to give II (R, R1, R2, R3, R4 unchanged).

IT 124810-41-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and hydrolysis of)

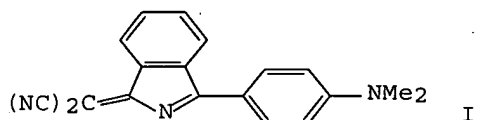
RN 124810-41-9 CAPLUS
 CN 1H-Isoindol-1-one, 3-[2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1981:123114 CAPLUS Full-text
 DN 94:123114
 TI Disperse dyes and their use
 IN Neumann, Peter; Elser, Wolfgang; Bock, Gustav; Kermer, Wolf Dieter
 PA BASF A.-G., Fed. Rep. Ger.
 SO Ger. Offen., 47 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2912428	A1	19801009	DE 1979-2912428	19790329
	US 4373102	A	19830208	US 1980-128156	19800307
	EP 17132	A1	19801015	EP 1980-101558	19800325
	EP 17132	B1	19811014		
	R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	JP 55131064	A2	19801011	JP 1980-39143	19800328
	JP 63060072	B4	19881122		
PRAI	DE 1979-2912428	A	19790329		

GI



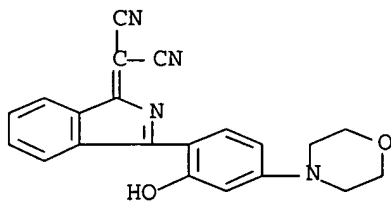
AB Substituted 1-(cyanomethylene)-3-(4-aminophenyl)-1H-isoindole derivs. are prepared and used to dye polyester fibers and polystyrene [9003-53-6] fast blue to violet shades. Thus, 3-(dicyanomethylene)-1-iminoisoindoline [43002-19-3] was heated with N,N-dimethylaniline [121-69-7] in Ac2O containing H2SO4 to give I [76751-73-0], reddish blue on polyester fibers.

IT 76751-49-0

RL: TEM (Technical or engineered material use); USES (Uses)
 (dye, for polyester fibers, preparation of)

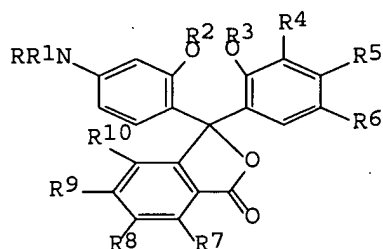
RN 76751-49-0 CAPLUS

CN Propanedinitrile, [3-[2-hydroxy-4-(4-morpholinyl)phenyl]-1H-isoindol-1-ylidene]- (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1979:620332 CAPLUS Full-text
 DN 91:220332
 TI Electrorecording paper
 IN Iwata, Susumu
 PA Ricoh Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 54104352	A2	19790816	JP 1978-9914	19780202
PRAI	JP 1978-9914	A	19780202		
GI					



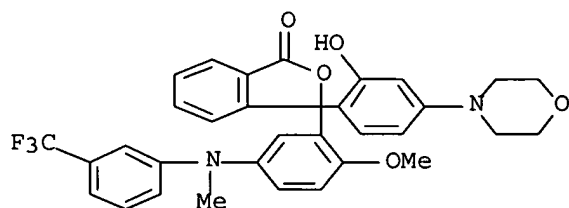
AB Lactones of the general formula I [R,R1 = H, lower alkyl, aralkyl, Ph, -CH2CH2CN, -CH2CH2OH, -CH2CH2X (X = halogen); RR1 in combination may form (CH2)4, (CH2)5, (CH2)20(CH2)2; R2,R3 = H, lower alkyl, aralkyl, acyl, Ph; R4,R5,R6 = H, lower alkyl, lower alkoxy, halo, halomethyl, NO2, amino; R7,R8,R9,R10 = H, lower alkyl, lower alkoxy, halo; R8R9 in combination may complete a naphthalene ring] are used as the color formers for electrorecording materials which are based on the color formation by joule heat. The color formers give images having excellent light fastness. Thus, an Al-laminated paper support was coated with a composition consisting of 3-(4-diethylamino-2-hydroxyphenyl)-3-(5-anilino-4-methyl-2-methoxyphenyl)phthalide 3, ZnO 30, Bisphenol A 6, a 10% poly(vinyl alc.) solution 50, a styrene-acrylic acid copolymer emulsion (20% solids) 5, and H2O 6 g to give an electrorecording paper. The recording was carried out at 120 v, 180 rpm-210 mm, 4 lines/mm, and 10 g/cm2 to form images with optical d. of 0.9. The images showed good light fastness.

IT 68882-50-8

RL: USES (Uses) (electrorecording sheet containing)

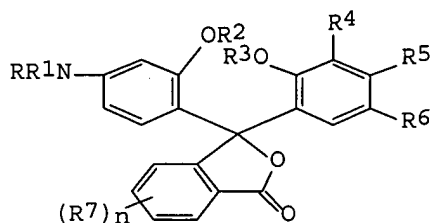
RN 68882-50-8 CAPLUS

CN 1(3H)-Isobenzofuranone, 3-[2-hydroxy-4-(4-morpholinyl)phenyl]-3-[2-methoxy-5-[methyl[3-(trifluoromethyl)phenyl]amino]phenyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1979:160127 CAPLUS Full-text
 DN 90:160127
 TI Thermal recording materials
 IN Iwata, Susumu; Kubo, Keiji; Miyajima, Shigeru; Tamura, Hiroshi
 PA Ricoh Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

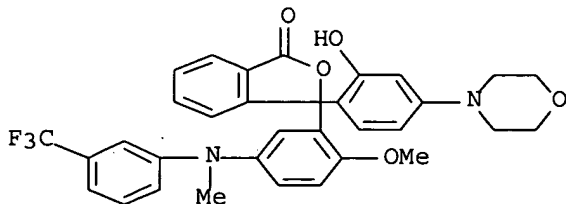
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 53100838	A2	19780902	JP 1977-14963	19770216
	JP 57052918	B4	19821110		
PRAI	JP 1977-14963	A	19770216		
GI					



I

AB Heat-sensitive recording materials contain (1) a lactone of the general formula I [R, R1 = H, lower alkyl, aralkyl, Ph, substituted Ph, cyanoethyl, HOCH2CH2, β -haloethyl; RR1 in combination may form (CH2)4, (CH2)5, (CH2)20(CH2)2; R2, R3 = H, lower alkyl, aralkyl, amyl, Ph; ≥ 2 of R2 and R3 is H; R4, R5, R6 = H, lower alkyl, lower alkoxy, halogen, halogenated Me, NO2, NH2, substituted amino; R7 = lower alkyl, lower alkoxy, halogen; n = 0-4], an acidic substance, a waxy substance, and an alkaline substance. The thermal recording materials exhibit good resistance toward pressure-induced blemishes, good shelf life, and give high d. clear images. Thus, 3-(4-diethylamino-2-hydroxyphenyl)-3-(5-anilino-4-methyl-2-methoxyphenyl)phthalide 3 g, a 20% poly(vinyl alc.) solution 20 mL, stearamide 6, NaO2CCCl3 2 g, and H2O 30 mL were mixed well, and the resultant dispersion was mixed with another dispersion consisting of Bisphenol A 12 g, a 10% poly(vinyl alc.) solution 10, and H2O 40 mL to give a heat-sensitive coating composition. The coating composition was coated on a paper support and used in a thermal printer to give a copy with good image optical d. and good storage stability.

IT 68882-50-8
 RL: USES (Uses) (coating compns. containing, for thermal recording paper)
 RN 68882-50-8 CAPLUS
 CN 1(3H)-Isobenzofuranone, 3-[2-hydroxy-4-(4-morpholinyl)phenyl]-3-[2-methoxy-5-[methyl[3-(trifluoromethyl)phenyl]amino]phenyl]- (9CI) (CA INDEX NAME)



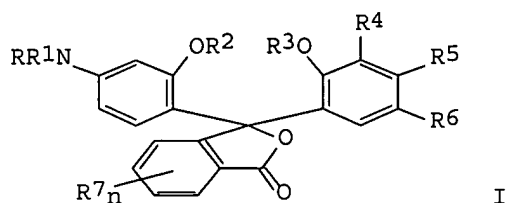
L5 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1979:95425 CAPLUS Full-text
 DN 90:95425
 TI Thermal recording materials
 IN Iwata, Susumu; Kubo, Keiji; Miyajima, Shigeru; Tamura, Hiroshi
 PA Ricoh Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 53099951	A2	19780831	JP 1977-14140	19770214
	JP 57052917	B4	19821110		
PRAI	JP 1977-14140	A	19770214		

GI



I

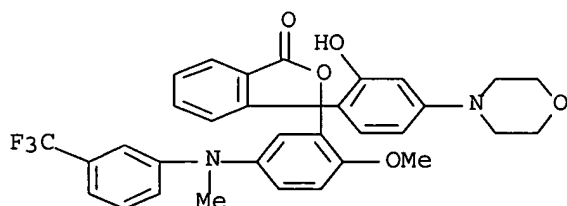
AB Thermal recording materials contain an acidic substance, an alkali metal salt, and a lactone of the general formula I (R, R1 = H, lower alkyl, aralkyl, Ph, substituted aralkyl, substituted Ph, CH2CH2CN, CH2CH2OH, 2-haloethyl, or RR1 in combination may complete a pyrrolidino, piperidino, or morpholino group; R2, R3 = H, lower alkyl, aralkyl, acyl, Ph, and ≥ 1 of R2 and R3 is H; R4, R5, R6 = H, lower alkyl, lower alkoxy, halogen, halomethyl, NO2, NH2, substituted amino; R7 = H, lower alkyl, lower alkoxy, halogen; n = 0-4). The thermal recording materials yield clear images without blemishes. Thus, a dispersion consisting of 3-(4'-diethylamino-2'-hydroxyphenyl)-3-(5'-anilino-4'-methyl-2'-methoxyphenyl)phthalide 3, Na2CO3 2 g, a 10% poly(vinyl alc.) solution 20 and H2O 30 mL was mixed with another dispersion consisting of Bisphenol A 12 g, a 10% poly(vinyl alc.) solution 10, and H2O 40 mL, and the mixture was coated on a paper support to give a thermal recording paper. The paper yielded clear black images when printed with a thermal printer.

IT 68882-50-8

RL: USES (Uses) (heat-sensitive color-forming compns. containing organic acid, alkali metal salt and, for thermal recording papers)

RN 68882-50-8 CAPLUS

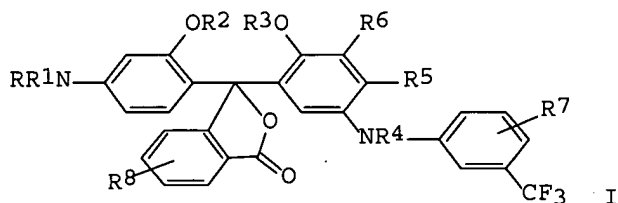
CN 1(3H)-Isobenzofuranone, 3-[2-hydroxy-4-(4-morpholinyl)phenyl]-3-[2-methoxy-5-[methyl[3-(trifluoromethyl)phenyl]amino]phenyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1979:64427 CAPLUS Full-text
 DN 90:64427
 TI Heat-sensitive imaging materials
 IN Iwata, Susumu; Kubo, Keiji; Tamura, Hiroshi; Miyajima, Shigeru
 PA Ricoh Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 53065739	A2	19780612	JP 1976-140174	19761124
PRAI	JP 1976-140174	A	19761124		

GI



AB Heat-sensitive imaging materials are described that contain a lactone of the general formula I [R, R1 = H, lower alkyl, aralkyl, Ph, CH2CH2CN, CH2CH2OH, β -haloethyl, or R,R1 in combination may form (CH2)4, (CH2)5, (CH2)20(CH2)2; R2, R3 = H, lower alkyl, amyl, Ph, and ≥ 1 of R2, R3 is H; R4 = H, aralkyl, lower alkyl; R5, R6 = H, lower alkyl, lower alkoxy, halogen, NO2, NH2; R7, R8 = H, lower alkyl, lower alkoxy, halogen; and n, m ≤ 4] as the color former. Thus, 3-(4'-diethylamino-2'-hydroxyphenyl)-3-(5'-N-methyl-m-trifluoromethylanilino-2'-ethoxyphenyl)phthalide was dispersed in an aqueous poly(vinyl alc.) solution, and Bisphenol A was then dispersed in another poly(vinyl alc.) solution, the 2 dispersions were mixed, and the mixture was coated on a paper support to give a heat-sensitive imaging paper which formed black images with high optical d. and good lightfastness, when used in a thermal printer.

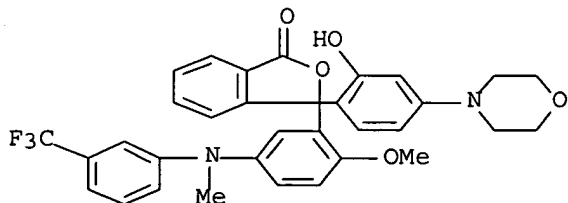
IT 68882-50-8

RL: USES (Uses)

(color-former comps. containing Bisphenol A and, for heat-sensitive copying papers)

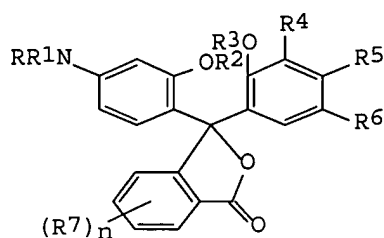
RN 68882-50-8 CAPLUS

CN 1(3H)-Isobenzofuranone, 3-[2-hydroxy-4-(4-morpholinyl)phenyl]-3-[2-methoxy-5-[methyl[3-(trifluoromethyl)phenyl]amino]phenyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1979:46582 CAPLUS Full-text
 DN 90:46582
 TI Thermal recording materials
 IN Iwata, Susumu; Kubo, Keiji; Tamura, Hiroshi; Miyajima, Shigeru
 PA Ricoh Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 53082421	A2	19780720	JP 1976-159144	19761228
	JP 57052916	B4	19821110		
PRAI	JP 1976-159144	A	19761228		
GI					



I

AB Thermal recording materials are described which contain a lactone compound I
 (R, R1 = H, lower alkyl, aralkyl, Ph, cyanoethyl, β -hydroxyethyl, β -haloethyl,
 or RR1 together form $-(CH_2)_4-$, $-(CH_2)_5-$, $-CH_2CH_2OCH_2CH_2-$; R2, R3 = H, lower
 alkyl, aralkyl, amyl, H where ≥ 1 of R2 and R3 is H; R4, R5, R6 = H, lower
 alkyl, lower alkoxy, halogen, halomethyl, NO2, amino; R7 = H, lower alkyl,
 lower alkoxy, halogen; n = 0-4), an acidic substance, and a substance which
 forms an alkaline substance upon heating. Thus, 3-(4'-diethylamino-2'-
 hydroxyphenyl)-3-[5'-N-methyl(3'''-trifluoromethylphenyl)amino-2'-
 ethoxyphenyl]phthalide 1, NaO2CCCl3 1, a 10% poly(vinyl alc.) solution 15, and
 H2O 35 g were mixed well, and the resultant dispersion was mixed with another
 dispersion composed of 4,4'-isopropylidenediphenol 4, 10% poly(vinyl alc.)
 solution 15, and H2O 35 g, and the mixture was coated on a paper support to
 give thermog. recording paper, which yielded a high quality copy when used in
 a thermal printer.

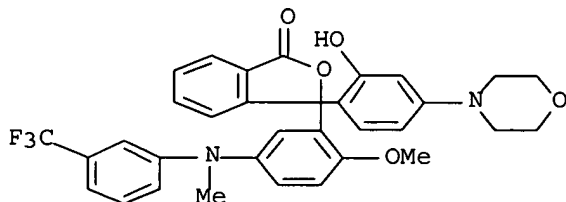
IT 68882-50-8

RL: USES (Uses)

(thermog. recording heat-sensitive composition containing)

RN 68882-50-8 CAPLUS

CN 1(3H)-Isobenzofuranone, 3-[2-hydroxy-4-(4-morpholinyl)phenyl]-3-[2-methoxy-
 5-[methyl[3-(trifluoromethyl)phenyl]amino]phenyl]- (9CI) (CA INDEX NAME)

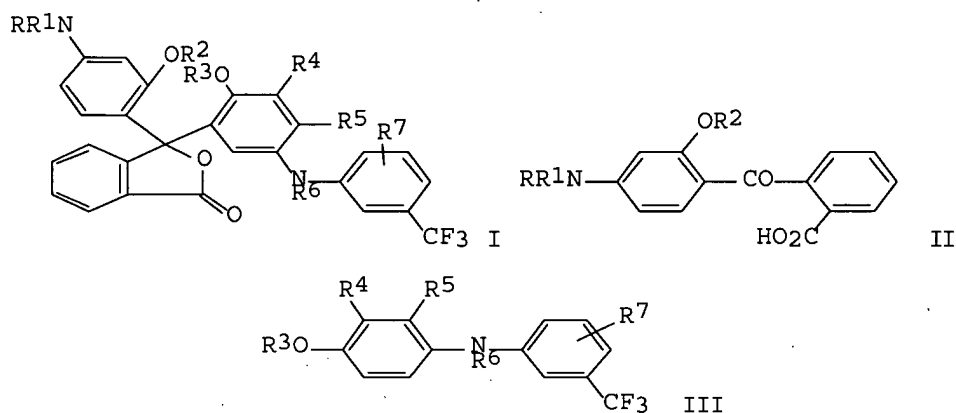


L5 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1979:6114 CAPLUS Full-text
 DN 90:6114
 TI Phthalide derivatives
 IN Kawai, Hajime; Tsunemitsu, Katsuhiko
 PA Yamada Chemical Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 53063436	A2	19780606	JP 1976-138099	19761116
	JP 59052672	B4	19841220		
PRAI	JP 1976-138099	A	19761116		

GI



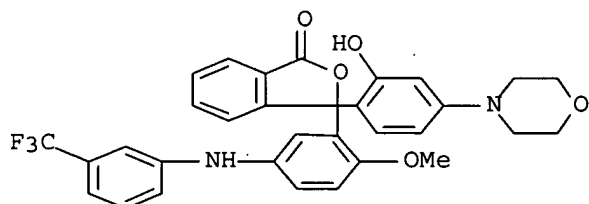
AB Phthalides (I; R, R1 = H, alkyl, aryl, NRR1 = heterocycle; R2 = H, alkyl, R3 = H, alkyl, PhCH2; R4, R5 = H, Me, Cl; R6 = H, Me; R7 = H, Cl) were prepared by condensation of m-HOC6H4NRR1 with phthalic anhydride to give benzopyrones (II) followed by condensation of II with diarylamines (III). I were chromophores. Thus, 31.3 g II (R = R1 = Et, R2 = H) and 26.7 g III (R3 = Me, R4-7 = H) in concentrated H2SO4 was stirred 48 h at 10° to give 50% I (R = R1 = Et, R2 = R4-7 = H, R3 = Me). Similarly prepared were 31 addnl. I.

IT 68535-00-2P

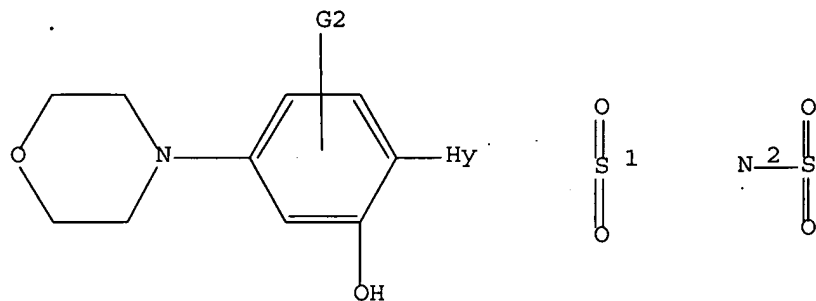
RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 68535-00-2 CAPLUS

CN 1(3H)-Isobenzofuranone, 3-[2-hydroxy-4-(4-morpholinyl)phenyl]-3-[2-methoxy-5-[[3-(trifluoromethyl)phenyl]amino]phenyl]- (9CI) (CA INDEX NAME)



=> d l2; d his; log y
 L2 HAS NO ANSWERS
 L1 STR



G1 C,O,S,N,P
 G2 H,[@1],[@2]

Structure attributes must be viewed using STN Express query preparation.
 L2 QUE ABB=ON PLU=ON L1

(FILE 'HOME' ENTERED AT 15:21:09 ON 30 NOV 2005)

FILE 'REGISTRY' ENTERED AT 15:25:32 ON 30 NOV 2005

L1 STRUCTURE UPLOADED
 L2 QUE L1
 L3 0 S L2
 L4 4 S L2 FUL

FILE 'CAPLUS' ENTERED AT 15:26:01 ON 30 NOV 2005

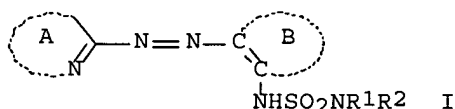
L5 8 S L4

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	ENTRY	SESSION
FULL ESTIMATED COST	39.97	202.77
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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-5.84	-5.84

STN INTERNATIONAL LOGOFF AT 15:26:27 ON 30 NOV 2005

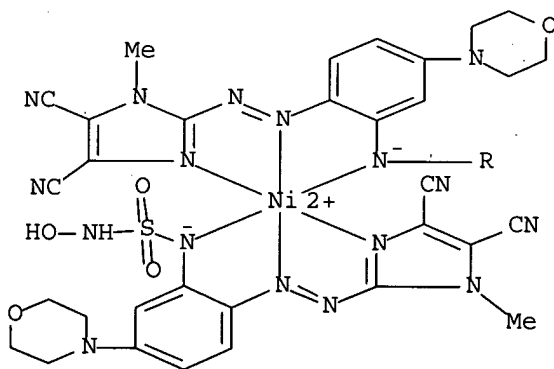
L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:1020790 CAPLUS Full-text
 DN 143:327747
 TI Azo metal chelate compounds and their use in short wavelength
 laser-readable and recordable optical recording media
 IN Nakagawa, Shinichi; Nishimoto, Taizo; Saito, Yasunori; Murakami, Masakazu;
 Sugimoto, Kenichi; Misawa, Tsutayoshi; Kinoshita, Tomoyuki; Kosaka,
 Akihiro; Kato, Kenichi; Masaoka, Toshihiro; Terao, Hiroshi; Kumagaya,
 Yojiro
 PA Mitsui Chemicals Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 35 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005255729	A2	20050922	JP 2004-66047	20040309
PRAI	JP 2004-66047		20040309		
GI					

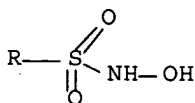


AB The title dye compds. are formed from ≥ 2 azo compds. and salts of polyvalent metals and can have a structure of I (ring A = optionally substituted heterocyclic rings; ring B = optionally substituted aromatic hydrocarbyl rings).
 IT 865095-20-1 865095-22-3 865095-28-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (photo dye; azo metal chelate compds. and their use in optical recording media)
 RN 865095-20-1 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

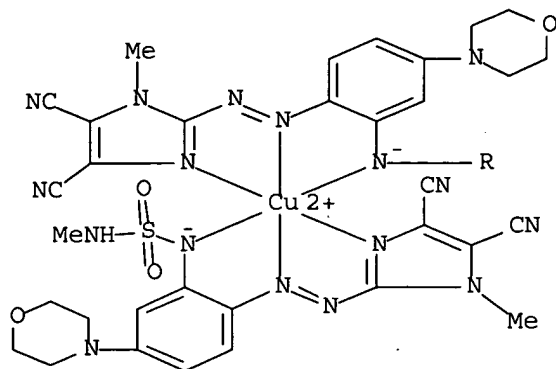


PAGE 2-A

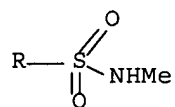


RN 865095-22-3 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

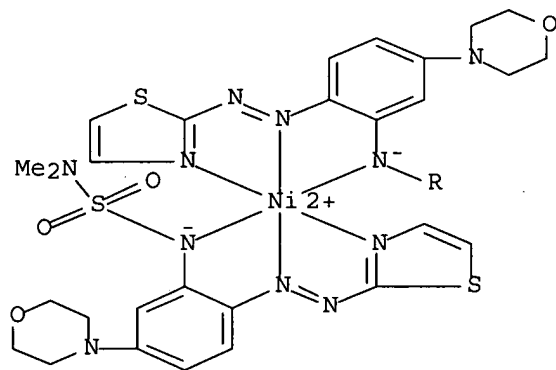


PAGE 2-A

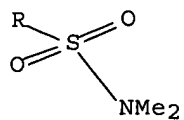


RN 865095-28-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

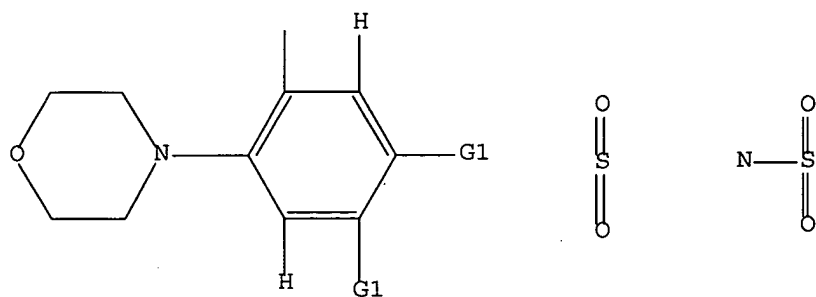
PAGE 1-A



PAGE 2-A



=> d l2; d his; log y
 L2 HAS NO ANSWERS
 L1 STR



G1 C,O,S,N,P
 G2 H

Structure attributes must be viewed using STN Express query preparation.
 L2 QUE ABB=ON PLU=ON L1

(FILE 'REGISTRY' ENTERED AT 15:04:17 ON 30 NOV 2005)

DEL HIS Y
 L1 STRUCTURE UPLOADED
 L2 QUE L1
 L3 0 S L2
 L4 3 S L2 FUL

FILE 'CAPLUS' ENTERED AT 15:05:49 ON 30 NOV 2005

L5 1 S L4

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

STN INTERNATIONAL LOGOFF AT 15:06:21 ON 30 NOV 2005